

SPLIT TYPE
AIR CONDITIONER

Models	Indoor unit	Outdoor unit
	RC-54TA	RO-54TA

CASSETTE type (50Hz)



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SPECIFICATIONS

TYPE		COOLING & HEATING
MODEL	IN	RC-54TA
	OUT	RO-54TA
COOLING CAPACITY (kW)		14.0
HEATING CAPACITY (kW)		15.8

POWER SOURCE		3N ~ 400V 50Hz
CURRENT (A)	COOL	9.5
	HEAT	10.0
INPUT WATTS (kW)	COOL	5.50
	HEAT	6.00
E.E.R. (kW/kW)	COOL	2.55
	HEAT	2.63
STARTING CURRENT (A)		74
MOISTURE REMOVAL (ℓ/h)		6.0

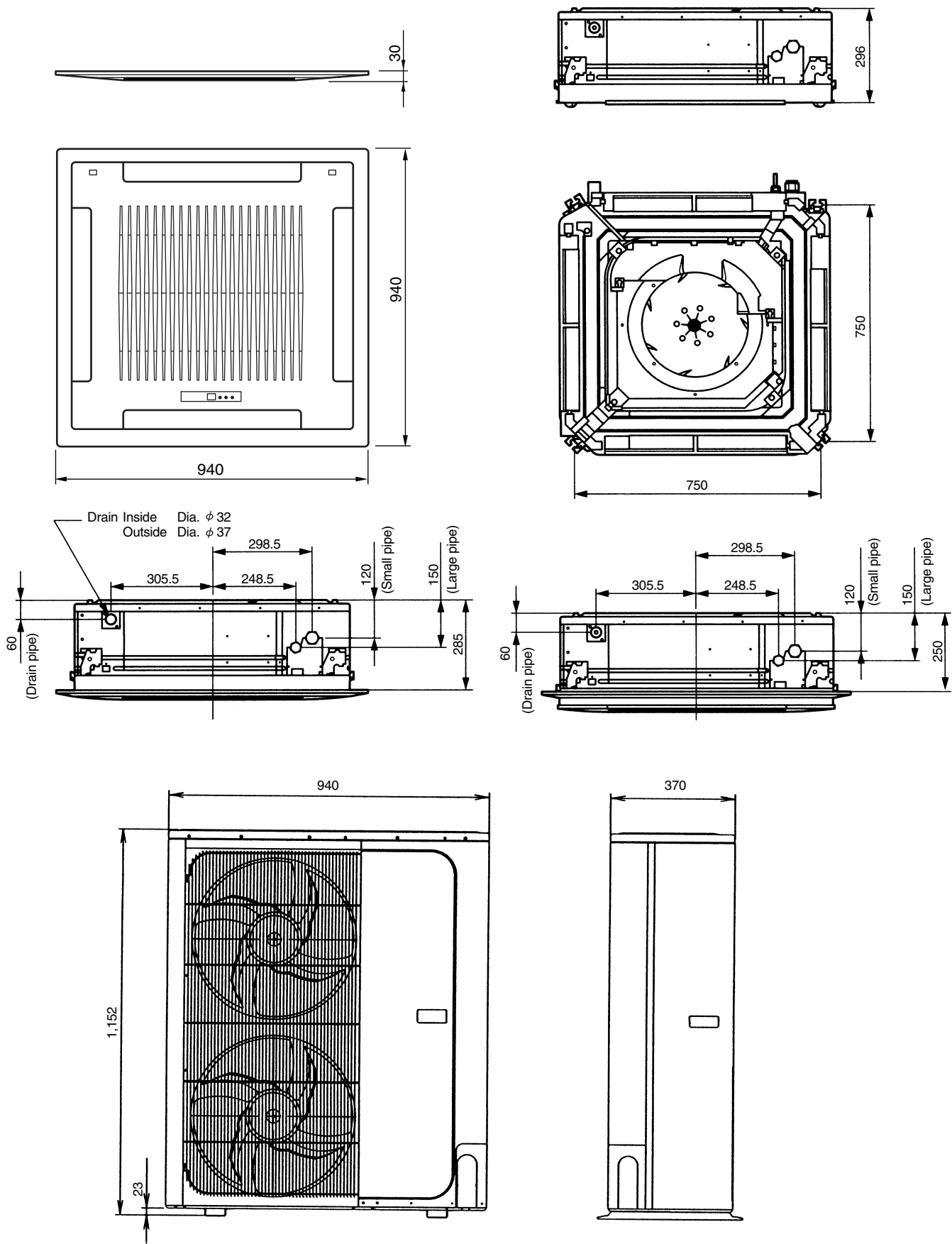
FAN SPEED (r.p.m.)	INDOOR	HIGH	660
		MED	560
		LOW	480
	OUTDOOR		760
AIR FLOW (m³/h)	INDOOR		1,780
	OUTDOOR		5,600
DIMENSIONS H x W x D (mm)		IN	296 x 830 x 830
		GRILLE	30 x 940 x 940
		OUT	1,152 x 940 x 370
WEIGHT NET/GROSS (kg)	IN		40 / 53
	OUT		120 / 134
MAX PIPE LENGTH / HEIGHT (m)			50 / 30
REMOTE CONTROLLER TYPE			WIRED

REFRIGERANT FULL CHARGE AMOUNT (R407C)

PIPE LENGTH	7.5 m (25 ft)	3,500 g (123.5 oz)
	10 m (33 ft)	3,500 g (123.5 oz)
	20 m (66 ft)	3,500 g (123.5 oz)
	25 m (82 ft)	3,750 g (132.3 oz)
	30 m (99 ft)	4,000 g (141.1 oz)
	40 m (132 ft)	4,500 g (158.7 oz)
	50 m (164 ft)	5,000 g (176.4 oz)
ADDITIONAL CHARGE		50 g/m (0.58 oz/ft)

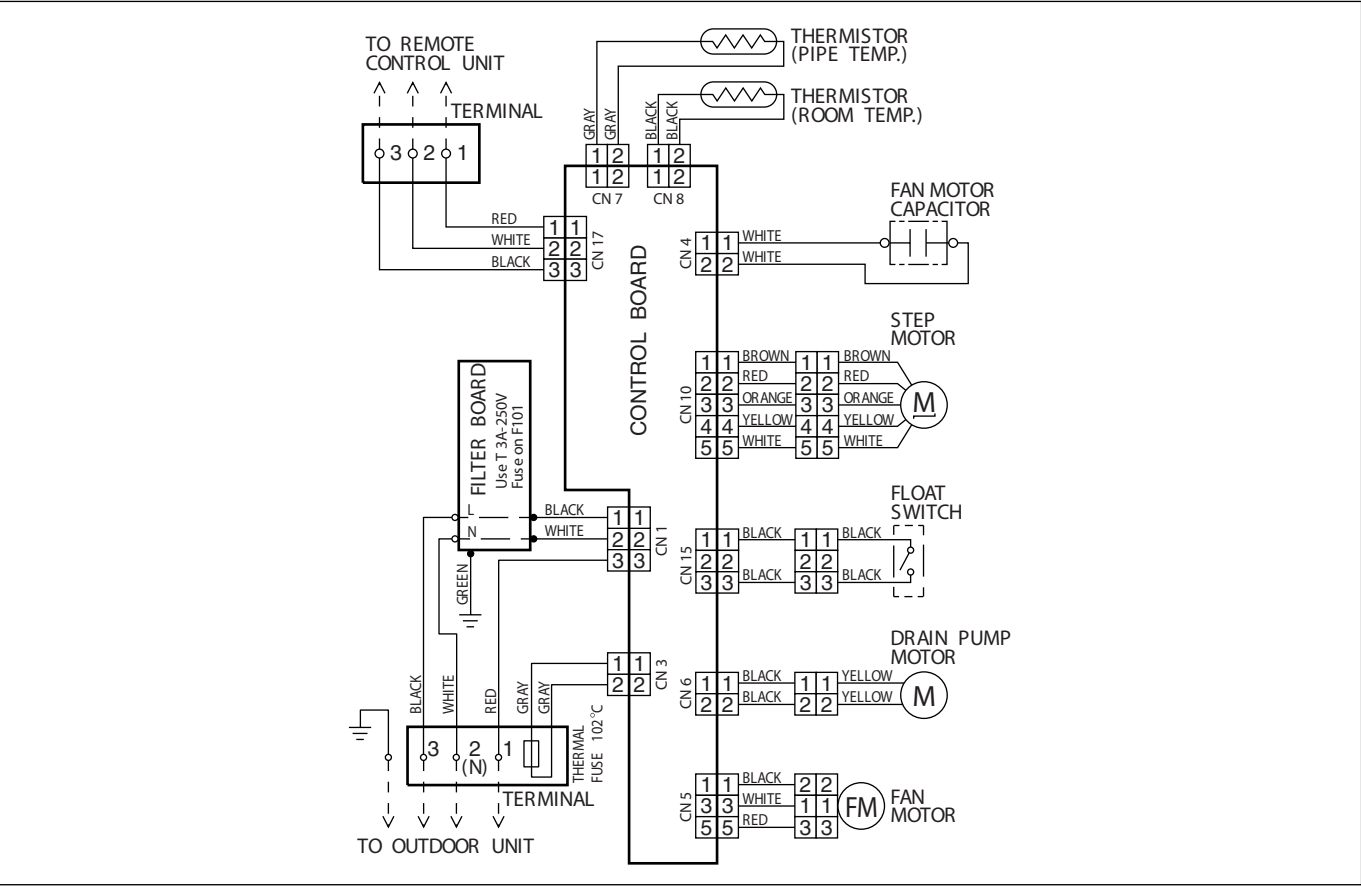
OUTLINE AND DIMENSIONS

Unit : mm

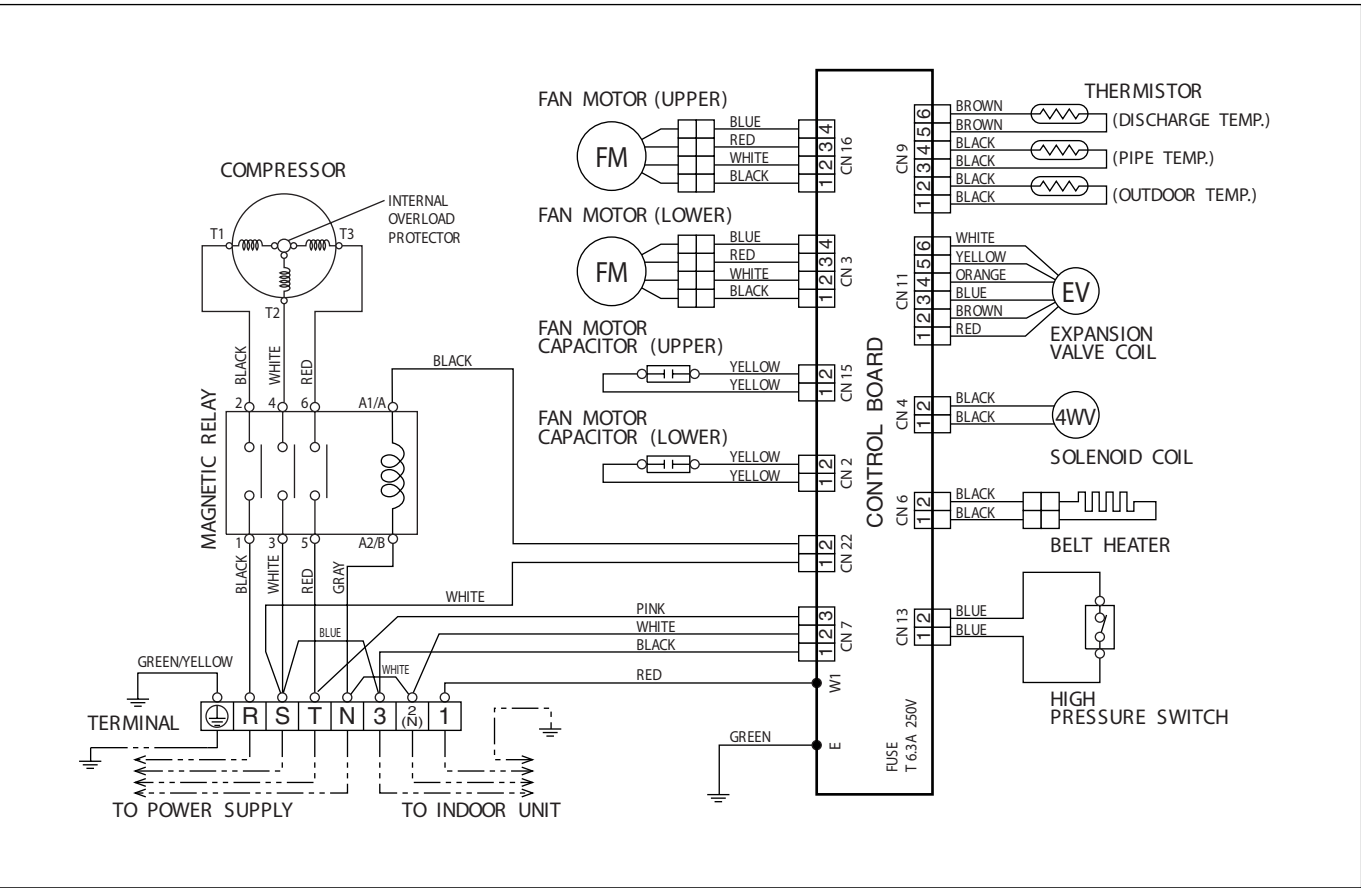


CIRCUIT DIAGRAM

Model : RC-54TA

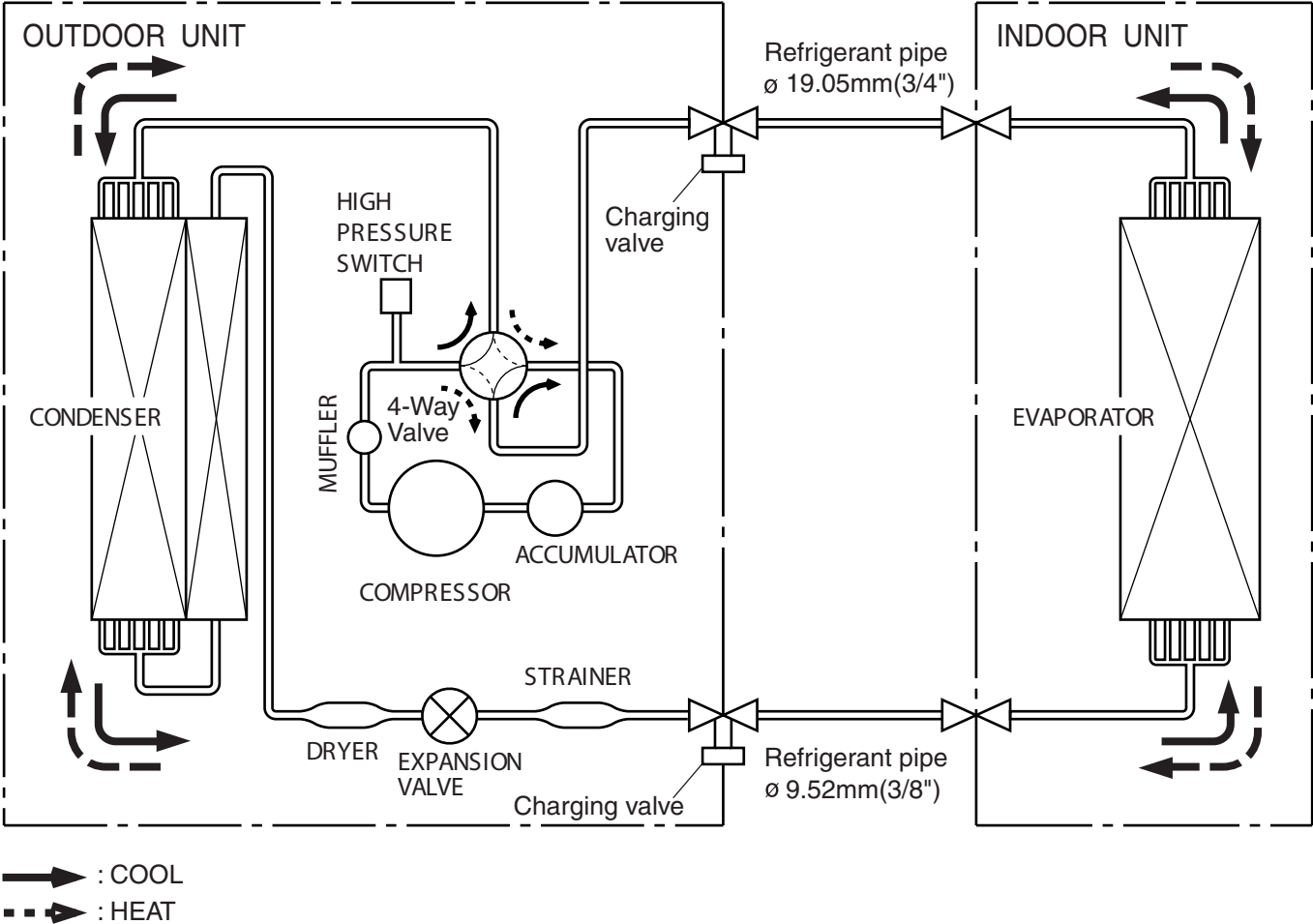


Model : RO-54TA



REFRIGERANT SYSTEM DIAGTRAM

Models : RC-54TA / RO-54TA



ERROR CONTENTS

Models : RC-54TA / RO-54TA

1. REMOTE CONTROLLER

- When EE : EE blinks at the current time display, there is an error inside the air conditioner. If the SET TIME button (▼) and TEMP./DAY button (▼) are pressed simultaneously for more than three seconds, the self diagnosis check will start and the error contents will be displayed at the current time display. When the operation lamp lights, press the START/STOP button and after operation lamp goes off, perform the same operation. Process the error contents by referring to (Table 1).

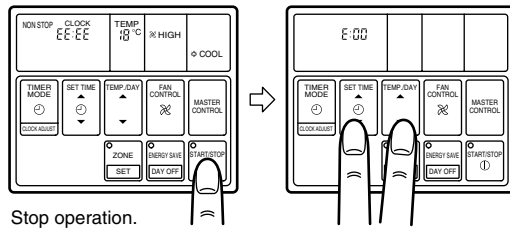


Table 1

Error cord	Error contents
E:00	Communication error (indoor unit ↔ remote controller)
E:01	Communication error (indoor unit ↔ outdoor unit)
E:02	Room temperature sensor open
E:03	Room temperature sensor shortcircuited
E:04	Indoor heat exchanger temperature sensor open
E:05	Indoor heat exchanger temperature sensor shortcircuited
E:06	Outdoor heat exchanger temperature sensor open
E:07	Outdoor heat exchanger temperature sensor shortcircuited
E:08	Power source connection error
E:09	Float switch operated
E:0A	Outdoor temperature sensor open
E:0B	Outdoor temperature sensor shortcircuited
E:0C	Discharge pipe temperature sensor open
E:0D	Discharge pipe temperature sensor shortcircuited
E:0E	Outdoor high pressure abnormal
E:0F	Discharge pipe temperature abnormal
E:11	Model abnormal
E:12	Indoor fan abnormal
E:13	Outdoor signal abnormal
E:14	Outdoor EEPROM abnormal

- To stop test running, press the START/STOP button.
- For the operation method, refer to the operating manual and perform operation check.
- Check that there are no abnormal sounds or vibration sounds during test running.

2. OUTDOOR UNIT

When the outdoor temperature drops, the outdoor unit's fans may switch to low speed, or one of the fans may stop intermittently.

ERROR : Heat & Cool model (Reverse cycle) only

The LED lamps operate as follows (Table 2) according to the error contents.

The LED lamps are on the outdoor unit board.

Table 2

Error contents	LED1	LED2	LED3	LED4	LED5	LED6
Signal abnormal	—	—	X	○	X	X
Indoor unit abnormal	—	—	X	X	○	X
Discharge pipe temperature abnormal	—	—	X	X	X	○
Outdoor heat exchanger temperature abnormal	—	—	X	X	○	○
Outdoor temperature abnormal	—	—	X	○	X	○
Power source connection error	—	—	○	X	X	X
EEPROM abnormal	—	—	○	○	○	○
	◎	◎	◎	◎	◎	◎
Outdoor high pressure abnormal	○	—	—	—	—	—
Discharge pipe temperature abnormal	—	○	—	—	—	—

○ : 0.5s ON / 0.5s OFF (flash)

X : OFF

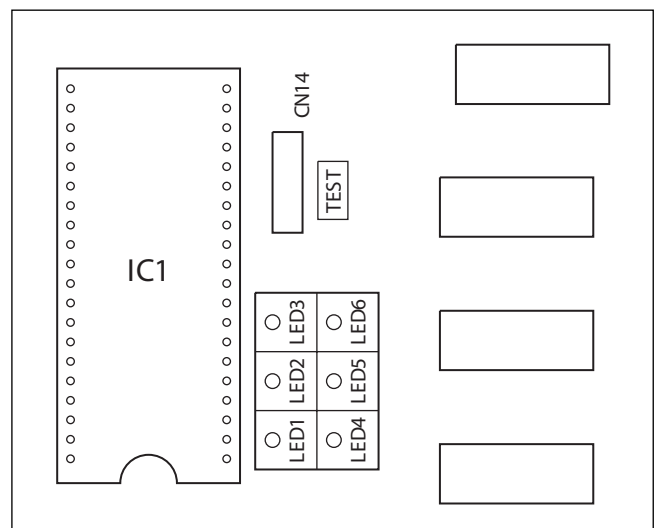
◎ : 0.1s ON / 0.1s OFF (flash)

— : Indefinite

When the fault is cleared, the LED lamp goes off.

However, for discharge pipe temperature abnormal and high pressure abnormal, the LED lamp lights continuously for 24 hours, as long as the power is not turned off.

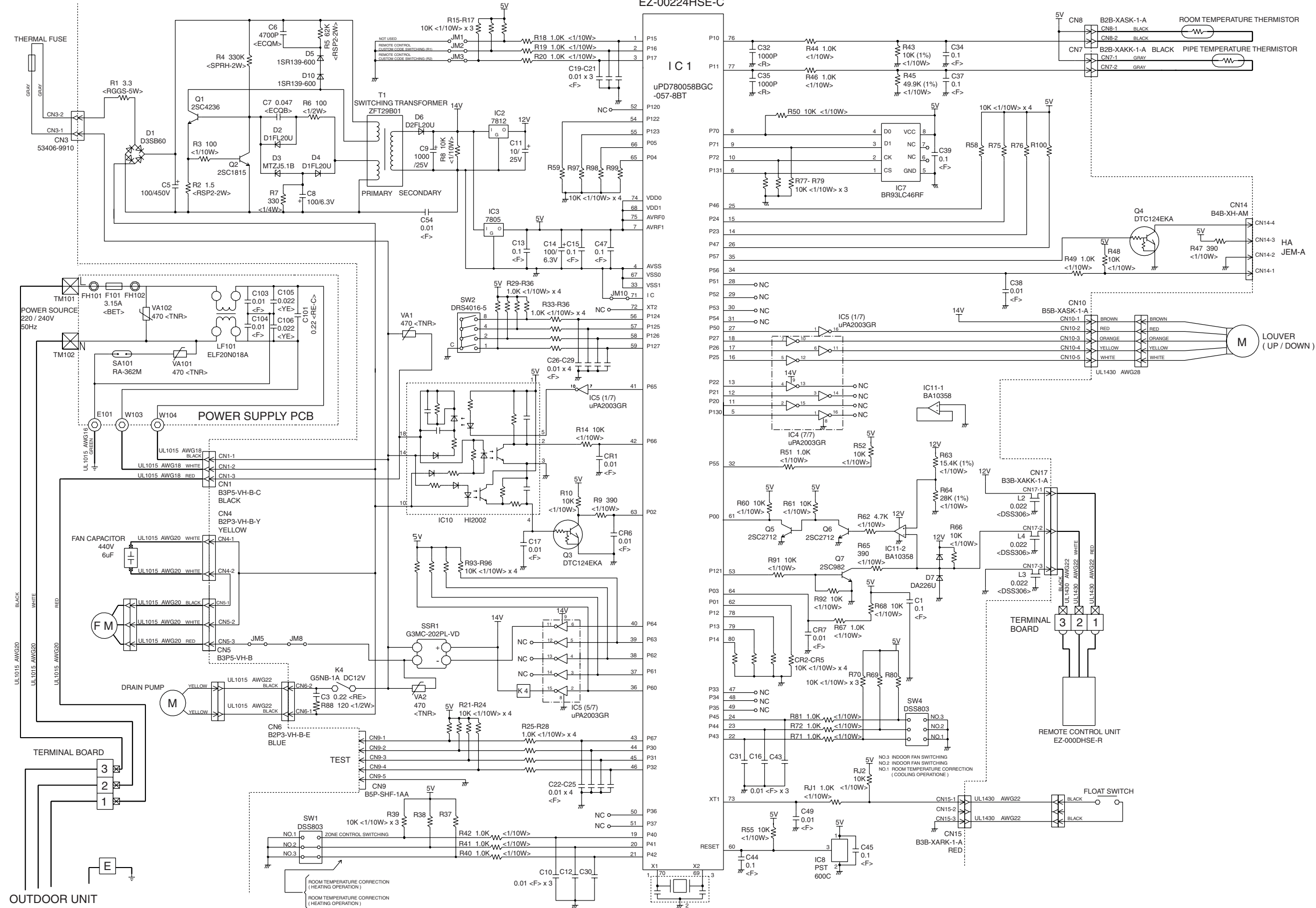
ERROR LED DISPLAY LAYOUT



INDOOR PRINTED CIRCUIT BOARD
CIRCUIT DIAGRAM

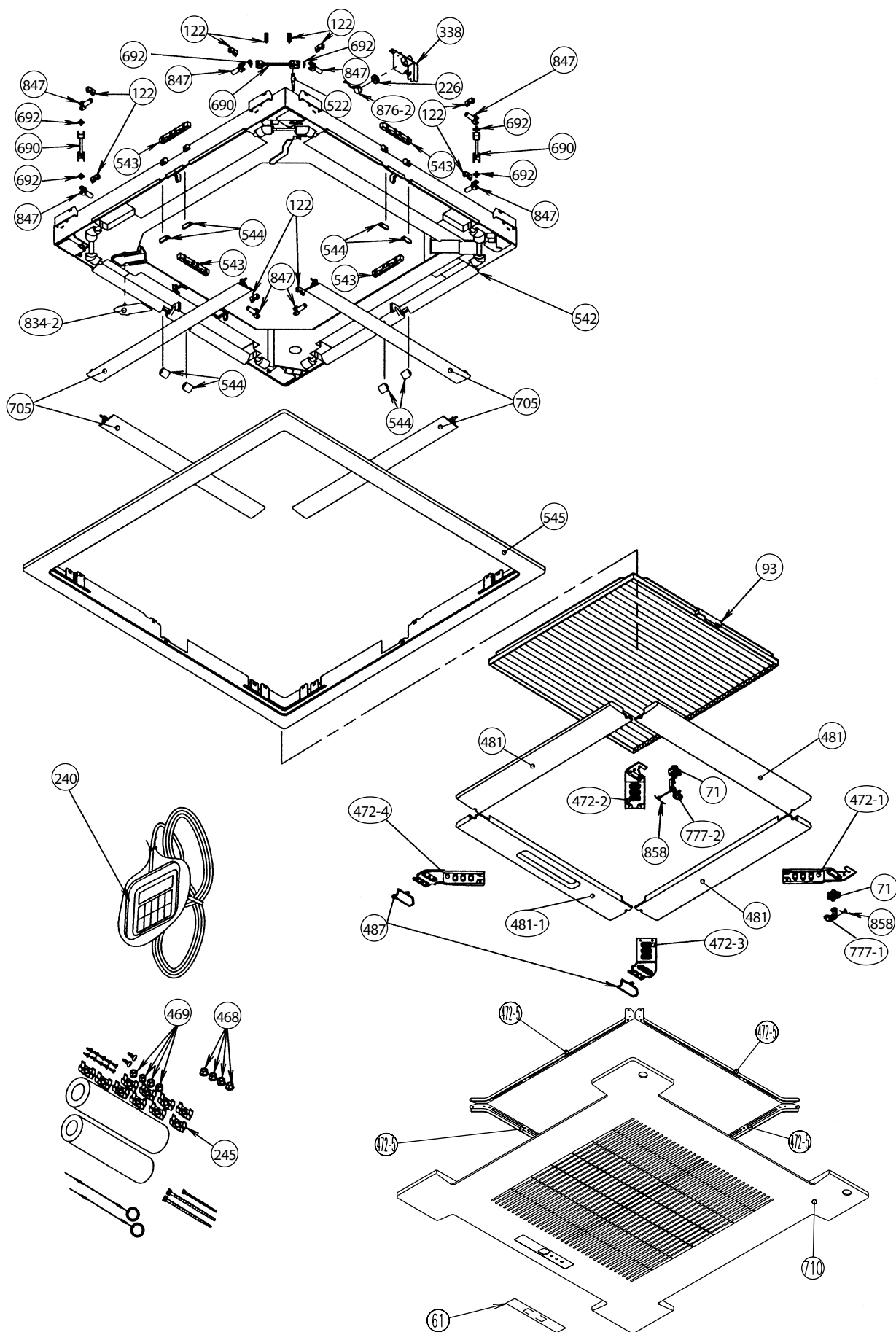
Model : RC-54TA

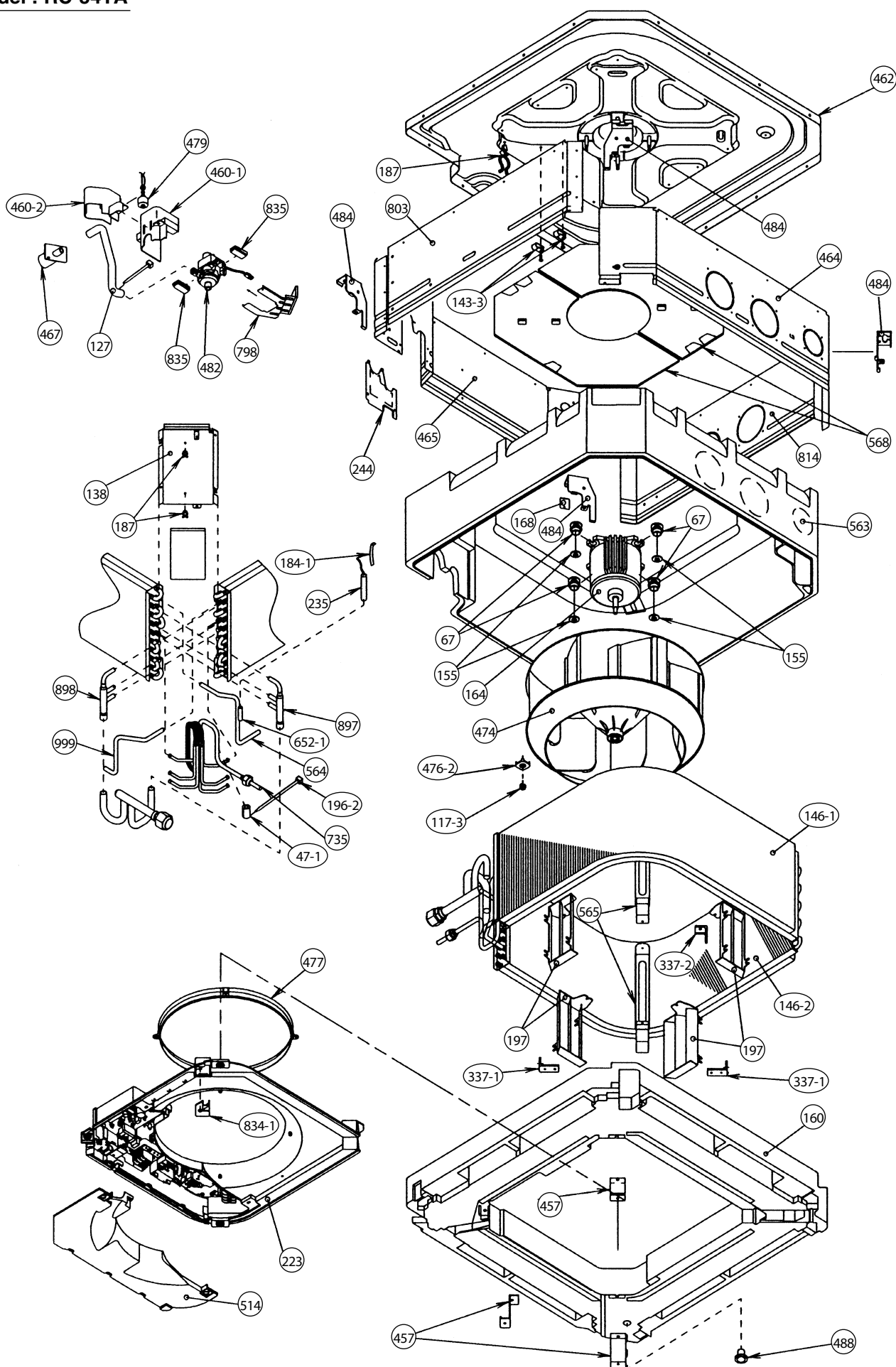
CONTROLLERPCB ASSEMBLY (MAIN PCB)
EZ-00224HSE-C

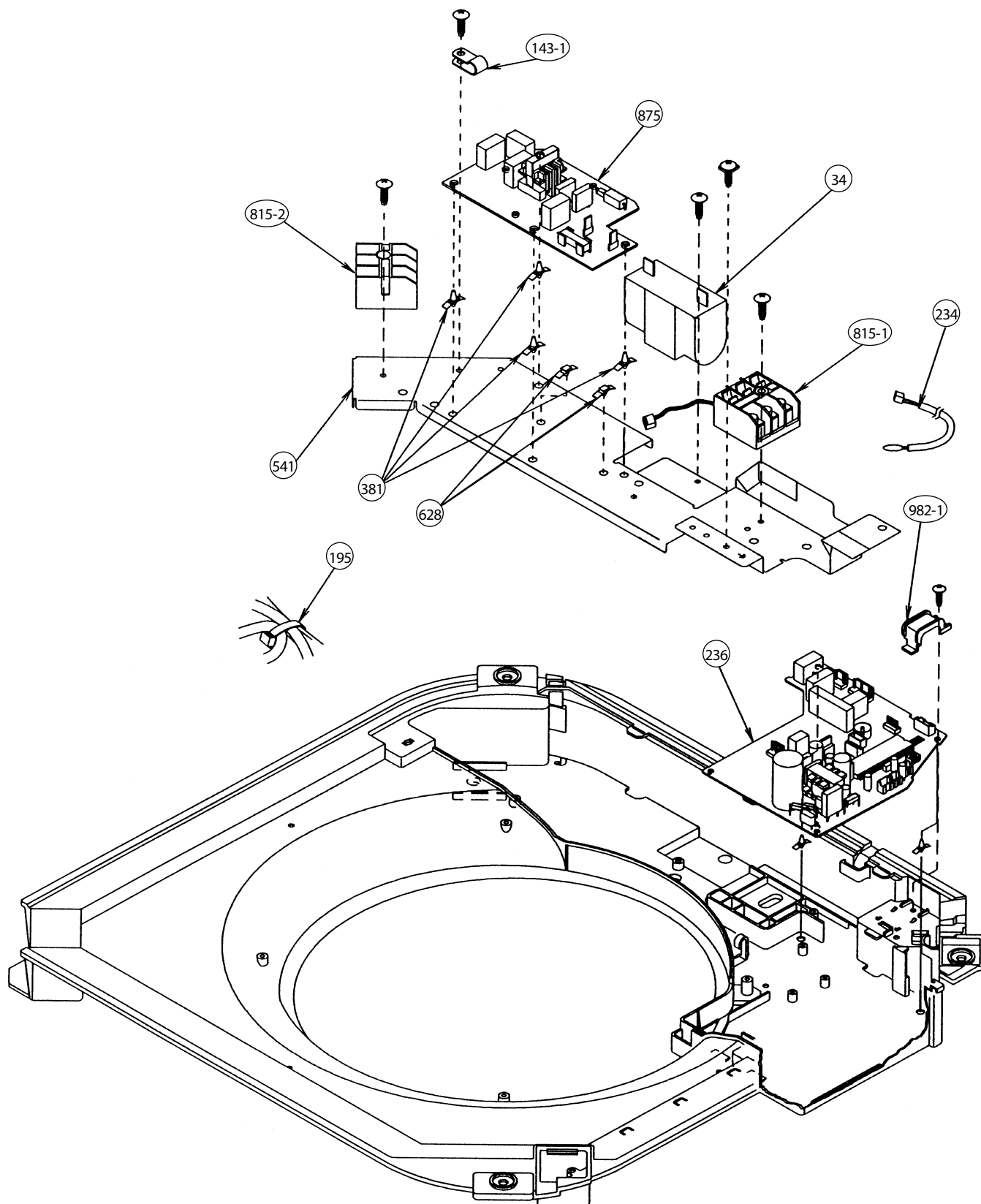


DISASSEMBLY ILLUSTRATION

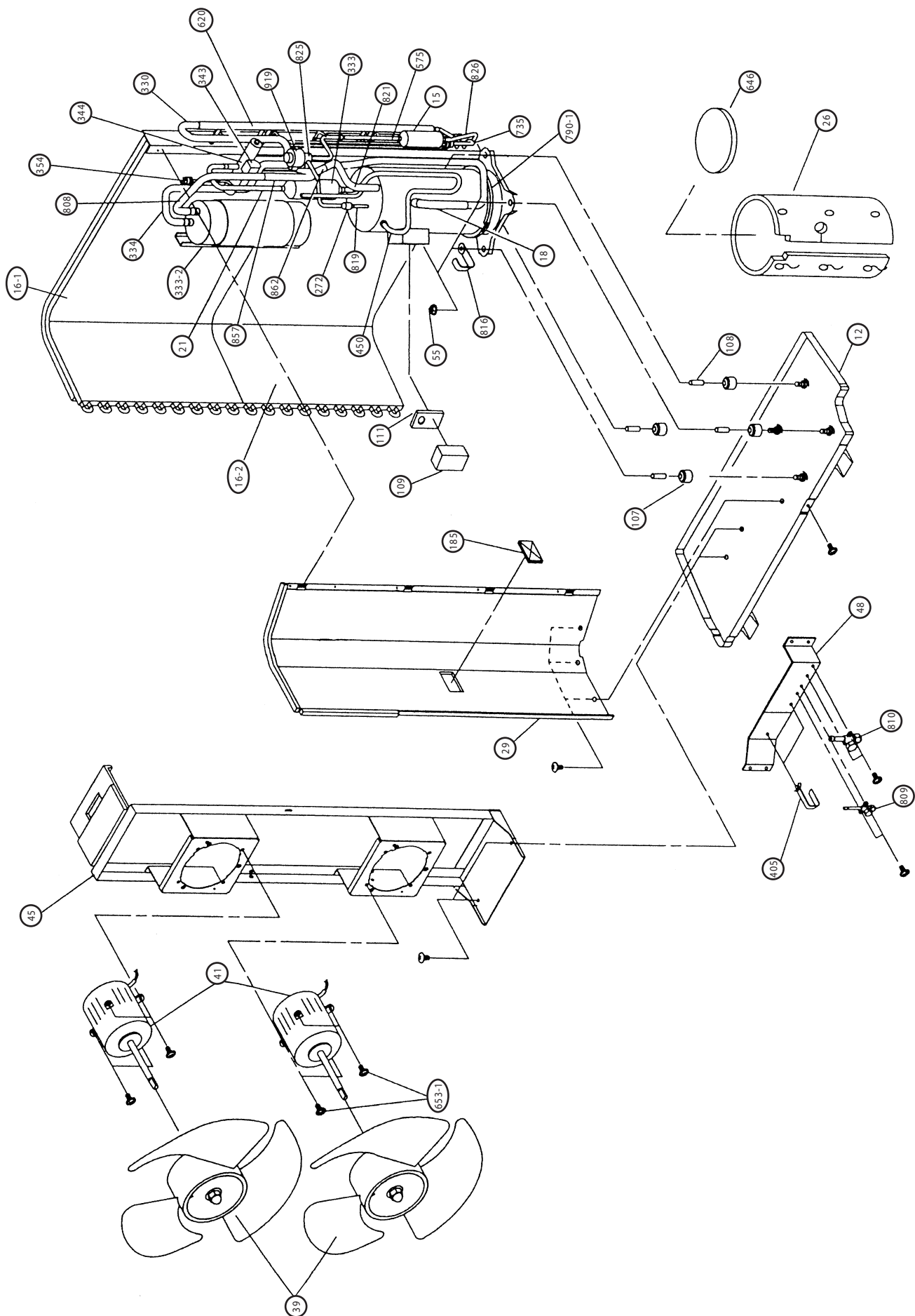
Model : RC-54TA







Model : RO-54TA



PARTS LIST

INDOOR UNIT

When you order parts, please make a photocopy of this page and fill the number of the parts in the "Order" column.

Ref. No.	Description	Part No.	Ord. Q'ty	Ref. No.	Description	Part No.	Ord. Q'ty
		RC-54TA				RC-54TA	
34	Capacitor (Fan Motor)	9703306068		488	Drain Pan Plug	313005174654	
47-1	Rubber (Discha. Pipe)	313194159807		514	Control Box Cover	9362763004	
61	Decoration Plate	9363133004		522	Joint Gear	9362772006	
67	Rubber (Vibration Proof)	9362783002		541	Terminal Plate	9363642001	
71	Grille Hook Holder	9362782005		542	Panel Base	9362759014	
93	Filter	9362766005		543	Panel Frame Holder	9362761017	
117-3	Hex. Nut w / Spring Washer	301721180114		544	Panel Base Holder	9362760010	
122	Louver Support Holder	9362799003		545	Panel Frame	9362758017	
127	Drain Hose	9362784009		563	Insulation (Inner Box)	9362768009	
138	Separate Wall	9362737005		564	By-pass Pipe-A Assy	9363151008	
143-1	Clamp NK-3N	313361274700		565	Evaporator Holder Assy	9362802017	
143-3	Clamp NK-9N	313209399700		568	Noise Insulation	9363143003	
146-1	Evaporator-A Assy	9364804002		628	Locking Spacer-B	313005446558	
146-2	Evaporator-B Assy	9364805009		652-1	Thermistor Holder Pipe	313806262805	
155	Special Nut M6	9307615016		690	Joint-A	9362773003	
160	Drain Pan Assy	9362804004		692	Joint Shaft	9362771009	
164	Fan Motor Assy-IN	9600878019		705	Louver	9362769013	
168	Cabinet-E	9362735001		710	Intake Grille-B	9362854016	
184-1	Thermo. Spring-A	313728262708		735	Distributor Assy	9364795003	
187	Clamp No. 1219	313361271706		777-1	Grille Hook-A	9362779012	
195	Clamp SKB-100	313361275805		777-2	Grille Hook-B	9362778015	
196-2	Clamp SKB-150	313035356905		798	Pump Hook Bracket	9362753005	
197	Wind Guide Board	9363117004		803	Cabinet-D	9362734004	
223	Control Box	9362762007		814	Cabinet-C	9362733007	
226	Motor Gear	9362764001		815-1	Terminal 3P	9306489069	
234	Thermistor Assy-Room	9703299025		815-2	Terminal 3P	9703345012	
235	Thermistor Assy-Pipe	9703297014		834-1	Wire Cover-A	9362789004	
236	Controller PCB Assy	9704557179		834-2	Wire Cover-B	9362788007	
240	Remote Control Unit	9371438016		835	Cushion Rubber (Pump)	9362777001	
244	Pipe Cover	9362748001		847	Louver Supporter	9362770019	
245	Cable Clamp	313714181904		858	Grille Spring	9362755009	
337-1	Reinforcement (Eva.)-A	9362749008		875	Filter PCB Assy	9704561091	
337-2	Reinforcement (Eva.)-B	9362750004		876-2	Step Motor	9360307019	
338	Motor Holder	9362765008		897	Coupling Pipe-A Assy	9363153002	
381	Locking Spacer	313209391506		898	Coupling Pipe-B Assy	9364806006	
457	Reinforcement (Drain Pan)	9362757003		982-1	Cord Clamp	9356857009	
460-1	Pump Cover-A	9362775007		999	By-pass Pipe-B	9363152005	
460-2	Pump Cover-B	9362776004					
462	Top Cover Plate	9362806015					
464	Cabinet-A	9362800013					
465	Cabinet-B	9362801010					
467	Drain Port	9362786003					
468	Special Nut-A (Large)	313005446653					
469	Special Nut-B (Small)	313005446759					
472-1	Grille Reinforcement-T-A	9362738002					
472-2	Grille Reinforcement-T-B	9362739009					
472-3	Grille Reinforcement-T-C	9362740005					
472-4	Grille Reinforcement-T-D	9362741002					
472-5	Grille Reinforcement-T-E	9362742009					
474	Turbo Fan Assy	9362803014					
476-2	Special Washer	9362756006					
477	Bellmouth (B)	9362774000					
479	Float Switch	9703285004					
481	Insulation (Grille)-A	9362780001					
481-1	Insulation (Grille)-B	9362781008					
482	Pump Unit	9703125010					
484	Hook	9362736008					
487	Grille Hinge Wire	9362754002					

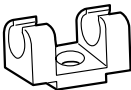
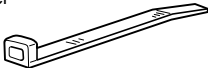
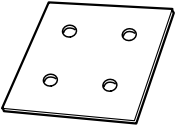
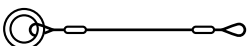
OUTDOOR UNIT

When you order parts, please make a photocopy of this page and fill the number of the parts in the "Order" column.

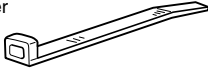
Ref. No.	Description	Part No.	Ord. Q'ty	Ref. No.	Description	Part No.	Ord. Q'ty
		RO-54TA				RO-54TA	
2	Fan Cover	9352159015		344	4-Way Valve	9970035012	
4	Emblem-Rear	9361328006		354	Pressure Switch	9704045003	
5	Cabinet-A, Painted	9352146015		373	Grip	9352157004	
6	Cabinet-C, Painted	9352149016		381	Locking Spacer	313209391506	
9	Cabinet-B, Painted	9352147012		405	Clamp No.1763	313816345304	
12	Base Assy, Painted	9352136016		407	Clip (Cable) No.1259	313739340109	
15	Dryer	9369978043		450	Discharge Pipe-A	9368338008	
16-1	Condenser-A Assy	9368409005		527	Protection Net	9352163012	
16-2	Condenser-B Assy	9368536008		575	Condensing Pipe-C	9368535001	
18	Suction Pipe Assy	9364514000		620	Inlet Pipe (Cond.) Assy	9362532006	
21	Discharge Pipe-B Assy	9368331009		628	Locking Spacer	313005446558	
26	Compressor Cover-A	9370774030		646	Compressor Cover-B	9370774047	
29	Separate Wall	9355277013		653-1	Bolt (Fan Motor Fixing)	9385089020	
30	Blower Cover, Painted	9352151019		678	Bracket (Thermistor)	313557406106	
32	Control Box Metal	9352134012		734	Cabinet Top Plate	9352161018	
34	Capacitor (Fan Motor)	9703306051		735	Distributor Assy	9362533003	
36	Cord Holder Metal	9356934007		790-1	Belt Heater-A	9361140042	
39	Propeller Fan Assy	9366378013		791	Magnetic Relay	9900078010	
41	Fan Motor Assy-Out	9600832028		803	Cabinet-D, Painted	9352150012	
45	Bracket (Motor) Assy	9368108007		805	Blower Cover Corner	9352160011	
46	Compressor Assy	9367377008		808	Inlet Pipe (Accumulator)-A	9368341008	
48	Bracket (Coupler) Assy	9355281010		809	Ball Valve-A	9371799018	
55	Special Nut M8 (For Comp.)	9355091008		810	Ball Valve-B	9371799032	
107	Rubber Seat-A (For Comp.)	9364084008		813	Cabinet Hook	9352148002	
108	Sleeve-A (For Comp.)	9364085005		815-2	Terminal-8P	9363276022	
109	Terminal Cover (For Comp.)	9364087009		816	Wire Clamp Metal	313584219902	
111	Terminal Packing	9364086002		819	Valve-A Coupl. Pipe	9368342005	
182	Clamp No.149	313361271505		821	Joint Pipe (Valve-B)	9368340001	
184-1	Thermo. Spring-A	313728262708		822	Fan Cover Fixture-A	9352158018	
185	Rubber Bushing	313005066051		825	Expansion Valve Assy	9370947069	
236	Controller PCB Assy	9704764157		826	Condensing Pipe-B	9368335007	
272	Strainer Assy	9368343002		857	Inlet Pipe (Accumulator)-B	9368333003	
330	Inlet Pipe (Cond.)-A	9368334000		862	Valve-B Coupl. Pipe	9368332006	
333	Accumulator	9350363018		880-1	Network	9700987017	
333-2	Accumulator (B)	9371615011		918	Thermistor Assy	9900129019	
334	Suction Pipe-B	9362557009		919	Expansion Valve Coil	9363467017	
343	Solenoid	9900165024					

STANDARD ACCESSORIES

INDOOR UNIT ACCESSORIES

Name and Shape	Part No.
Coupler heat insulation 	9350716029 } 1 each 9352766015 }
Remote control unit cord clamp 	313714181904
Binder 	313035356905 (Large) 313361275805 (Small)
Screw 	(A) 301141134166 For installing the mounting bracket (B) 301141153027 For installing the cord clamp
Special nut A (large flange) 	313005446653
Special nut B (small flange) 	313005446759
Remote control unit 	9371438016
Template 	9363173000
Blower cover insulation 	9363265002
Hook wire 	9363168006

OUTDOOR UNIT ACCESSORIES

Name and Shape	Part No.
Power cap 	9352173011
Auxiliary pipe assembly 	9355292016
Edge Cover 	9352436000
Tapping screw 	301463040100
Binder 	313035356905
Putty 	303020200114
Coupler heat insulation 	313005074759
Pipe (drain) 	313728031005
	313013042915
Cap (drain) 	313166024302

